

ARMY TM 5-4120-343-24P
AIR FORCE TO 35E9-179-14

TECHNICAL MANUAL

**ORGANIZATIONAL, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR
PARTS AND SPECIAL TOOLS)**

**AIR CONDITIONER, 25,000 BTU
ELECTRIC MOTOR DRIVEN,
120/208V, 3 PHASE, 50/60 HZ,
4 WIRE, ELLIS WATTS
MODEL MOAC-336**

NSN 4120-01-030-6883

This copy is a reprint which includes current
pages from Change 1.

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TO 35E9-179-14
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CHANGE
NO. 1 }

HEADQUARTERS
DEPARTMENTS OF THE ARMY AND
AIR FORCE
WASHINGTON, D.C., 20 June 1988

Organizational, Direct Support and
General Support Maintenance
Repair Parts and Special Tools Lists
(Including Depot Maintenance Repair
Parts and Special Tools)

AIR CONDITIONER, 25,000 BTU
ELECTRIC MOTOR DRIVEN,
120/208V, 3 PHASE, 50/60 HZ,
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MODEL MOAC-336
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7 and 8
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Technical Manual
NO. 5-4120-343-24P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D. C., 13 June 1979

**ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
AIR CONDITIONER, 25,000 BTU,
(ELLIS AND WATTS MODEL MOAC-336)
NSN 4120-01-030-6883**

Current as of 13 June 1979

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistake or if you know of a way to improve the procedures, please let us know. Mail you letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U. S. Army Troop Support and Aviation Materiel Readiness Command, ATTN: DRSTS-MTPS, 4300 Goodfellow Boulevard, St. Louis, MO 63120. A reply will be furnished directly to you.

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Section I. INTRODUCTION

1. Scope. This manual lists repair parts, special tools, test, measurement, and diagnostic equipment (TMDE), and other support equipment required for operation and performance of organizational, direct support, general support and depot maintenance of the Air Conditioner.

2. General.

a. *Section II - Repair Parts List.* A list of repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of assembly groups in ascending numerical sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence, as the last group in Section II.

b. Section II - Special Tools List. (Not applicable)

c. Section IV - National Stock Number and Part Number Index. A list, in NIIN (National Item Identification Number) sequence, of all National Stock Numbers appearing in the listings, followed by a list, in alphanumeric sequence, of part numbers appearing in the listings. National Stock Number and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns. The following provides an explanation of columns found in the tabular listings:

a. Illustration. This column is divided as follows:

(1) Figure Number. Indicates the figure number of the illustration in which the item is shown.

(2) *Item Number.* The number used to identify each item called out in the illustration.

b. Source, Maintenance, and Recoverability Codes (SMR)

(1) Source Code. Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition	Code	Definition
PA	Item procured and stocked for anticipated or known usage.	AF	Item to be assembled at direct support maintenance level.

AH	Item to be assembled at general support maintenance level.
AD	Item to be assembled at depot maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA or XD.

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance.

Code	Application/Explanation
C	Crew or operator maintenance performed within organizational maintenance.
O	Support item is removed, replaced, used at the organizational level.
I	Support item is removed, replaced, used by the direct support element of integrated direct support maintenance.
F	Support item is removed, replaced, used at the direct support level.
H	Support item is removed, replaced, used at the general support level.
O	Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

NOTE

Codes "I" and "F" will be considered the same by direct support units.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
L	Repair restricted to designated specialized repair activity.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. The item may be reconditioned by adjusting, lubricating etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Codes	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in Position 3.
O	Reparable item. When uneconomically repairable, condemn and dispose at organizational level.

F	Reparable item. When un-economically repairable, condemn and dispose at the direct support level.	When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increase accordingly.
H	Reparable item. When un-economically repairable, condemn and dispose at the general support level.	
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below level.	<i>g. Unit of Measure (U/M).</i> Indicates the standard of the basic quantity of the listed items as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.
L	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.	<i>h. Quantity Incorporated in Unit.</i> Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g. shims, spacers, etc.).
A	Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.	

c. National Stock Number. Indicates the National Stock Number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer which controls the design and characteristics of the items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. In the Special Tools List, the initial basis of issue (BOI) appears as the last line in the entry for each special tools, TMDE, and support equipment.

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5. How to Locate Repair Parts.

a. When National Stock Number or Part Number is Unknown.

(1) *First.* Using the table of contents, determine the assembly group within which the repair part belongs. This is necessary since illustrations are prepared for assembly groups, and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the assembly group to which the repair part belongs.

(3) *Third.* Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National Stock Number or Part Number is Known.

(1) *First.* Using the Index of National Stock

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Numbers and Part Numbers, find the pertinent national stock number or part number. This index is in ascending NSN sequence followed by a list of part numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

(1) ILLUSTRATION	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) U/M	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.				SECTION II. REPAIR PARTS LIST 1 GROUP 01 CHASSIS SECTION USABLE ON CODE		
1	1	XBFZZ	20V2-1	98437	CHASSIS,AIR.....	EA	1
1	2	PAOZZ	5310-00-984-3806	MS51922-9	98906 NUT,SELF-LOCKING.....	EA	12
1	3	PAOZZ	5310-00-087-7493	MS27183-13	98906 WASHER,FLAT.....	EA	24
1	4	XBOZZ		DANIELS621L	71747 BOLT,EYE.....	EA	4
1	5	PAOZZ	5310-00-141-3062	MS27130A26	98906 NUT,PLAIN,BLIND.....	EA	6
1	6	PAOZZ	5310-00-550-5054	MS15795-809	98906 WASHER,FLAT.....	EA	6
1	7	PAOZZ	5310-00-933-8121	MS35338-139	98906 WASHER,LOCK.....	EA	6
1	8	PAOZZ	5305-00-247-1325	MS35234-65	98906 SCREW,MACHINE.....	EA	6
1	9	XBOZZ		20V2-2P1	98437 CABINET,ELECTRICAL.....	EA	1
1	10	PAOZZ	5305-00-225-9081	MS90725-36	98906 SCREW,MACHINE.....	EA	8
1	11	XBFZZ		20V2-2P8	98437 BRACKET,ANGLE.....	EA	4
1	12	PAOZZ	5310-01-009-9785	MS27130-20	98906 NUT,PLAIN,BLIND.....	EA	8
1	13	PAOZZ	5310-00-045-3296	MS35338-43	98906 WASHER,LOCK.....	EA	8
1	14	PAOZZ	5310-00-809-8546	MS27183-8	98906 WASHER,FLAT.....	EA	8
1	15	PAOZZ	5305-00-993-1848	MS35207-265	98906 SCREW,MACHINE.....	EA	8
1	16	XBOZZ		20V2-107M1	98437 GRILLE,METAL.....	EA	8
1	17	PAOZZ	5325-00-282-7471	85-35-295-15	94222 RECEPTACLE,TURNLOCK.....	EA	1
1	18	PAOZZ	5365-00-838-0422	85-34-101-17	94222 RETAINER,STUD.....	EA	34
1	19	PAOZZ	5320-00-582-3522	1601-0410	94222 RIVET,BLIND.....	EA	72
1	20	PAOZZ	5310-00-777-6032	85-46-101-39	94222 WASHER,RECESSED.....	EA	34
1	21	PAOZZ	5325-00-410-3130	14-18-150-24	94222 SPRING,HELICAL.....	EA	34
1	22	PAOZZ	5325-01-021-1121	85-11-980-16	94222 STUD,TURNLOCK.....	EA	30
1	23	XBOZZ		20V1-1P1	98437 COVER,ACCESS.....	EA	1
1	24	PAUZZ	5325-01-021-1528	85-11-1100-16	94222 STUD,TURNLOCK.....	EA	4
1	25	PAOZZ	4130-01-072-8271	20V2-105	98437 FILTER ELEMENT,AIR.....	EA	1
1	26	XBOZZ		SS720-20V	98437 PLATE.....	EA	1
1	27	XBOZZ		20V1-1P2	98437 COVER,ACCESS.....	EA	1
1	28	XBOZZ		20V2-108	98437 PLATE,INSTRUCTION.....	EA	1
1	29	XBOZZ		20V2-109	98437 PLATE,INSTRUCTION.....	EA	2
1	30	XBOZZ		20V1-1P4	98437 COVER,ACCESS.....	EA	1
1	31	XBOZZ		20V1-1P3	98437 COVER,ACCESS.....	EA	1
1	32	PAOZZ	5320-00-426-4916	1601-0613	94222 RIVET,BLIND.....	EA	22
1	33	XBOZZ		SS196	98437 INSULATOR,WASHER.....	EA	22
1	34	XBOZZ		20V5-6-2P5	98437 INSULATION BOARD.....	EA	2
1	35	XBOZZ		20V5-6-2P6	98437 INSULATION BOARD.....	EA	1
1	36	XBOZZ		20V5-6-2P4	98437 INSULATION BOARD.....	EA	1
1	37	XBOZZ		20V5-6-2P1	98437 INSULATION BOARD.....	EA	1
1	38	XBOZZ		20V5-6-2P2	98437 INSULATION BOARD.....	EA	1
1	39	XBOZZ		20V5-6-2P3	98437 INSULATION BOARD.....	EA	1
1	40	XBOZZ		20V5-6-2P7	98437 INSULATION BOARD.....	EA	1
1	41	XBOZZ		20V5-6-2P8	98437 INSULATION BOARD.....	EA	1

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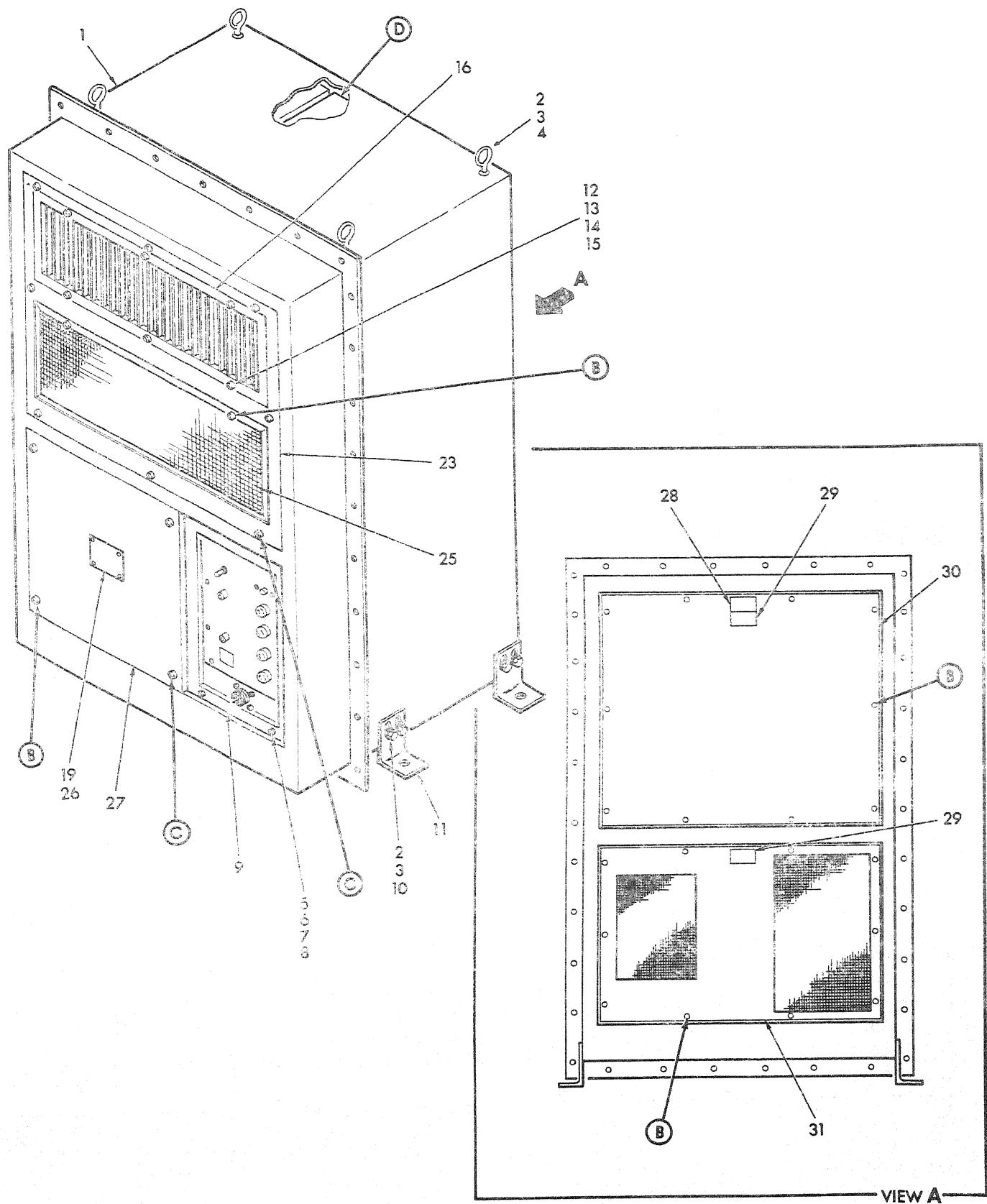
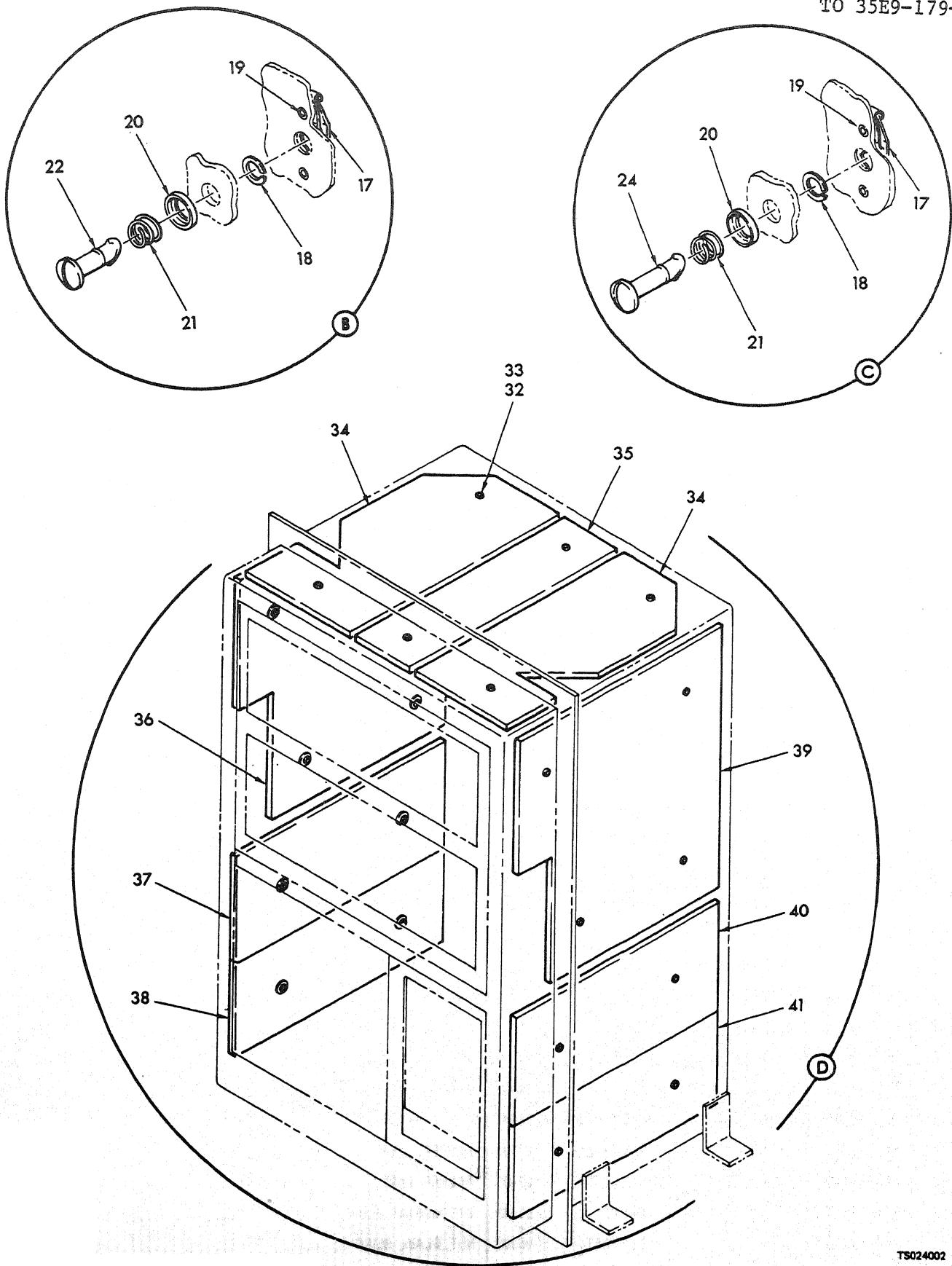


FIG 1. CHASSIS SECTION (SHEET 1 OF 2)

TS024001



TS024002

FIG 1. CHASSIS SECTION (SHEET 2 OF 2)

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(1) ILLUSTRATION	(2) ITEM NO.	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) U/M	(8) QTY INC IN UNIT
							USABLE ON CODE
					GROUP 02 CONTROL AND INDICATOR SECTION		
2	1	PAOZZ	5305-00-059-3660	MS51958-64	96906 SCREW, MACHINE	EA	8
2	2	PAOZZ	5310-00-933-8121	MS35338-139	96906 WASHER, LOCK	EA	10
2	3	PAOZZ	5310-00-550-5054	MS15795-809	96906 WASHER, FLAT	EA	10
2	4	PAOZZ	5310-01-009-9785	MS27130-20	96906 NUT, PLAIN, BLIND	EA	20
2	5	PAOZZ	5930-00-615-9367	MS35059-21	96906 SWITCH, TOGGLE ATTACHING HARDWARE SUPPLIED WITH SWITCH	EA	1
2	6	PAOZZ	5310-00-934-9765	MS35650-304	96906 NUT, PLAIN, HEXAGON	EA	2
2	7	PAOZZ	5925-00-077-8972	PDM5	73803 CIRCUIT BREAKER	EA	1
2	8	PAOZZ	5305-00-059-3662	MS51958-66	96906 SCREW, MACHINE	EA	2
2	9	PBOZZ	6110-00-994-8356	42555-300	04009 BUTTON, RESET ATTACHING HARDWARE SUPPLIED WITH RESET BUTTON	EA	2
2	10	PAOZZ	6210-00-683-0133	51901-133	72619 LIGHT, INDICATOR ATTACHING HARDWARE SUPPLIED WITH INDICATOR LIGHT	EA	1
2	11	PAOZZ	6240-00-143-3049	6S6	92966 LAMP, INCANDESCENT	EA	4
2	12	PAOZZ	6210-00-504-1093	51-0901-0112-201	72619 LIGHT INDICATOR ATTACHING HARDWARE SUPPLIED WITH INDICATOR LIGHT	EA	2
2	13	XBOZZ		20V2-108	98437 PLATE, INSTRUCTION	EA	1
2	14	PAOZZ	6210-00-293-5106	51-0901-0111-301	72619 LIGHT, INDICATOR ATTACHING HARDWARE SUPPLIED WITH INDICATOR LIGHT	EA	1
2	15	XBOZZ		20V4-1-1	98437 PLATE, MOUNTING	EA	1
2	16	PAOZZ	5310-00-934-9761	MS35649-64	96906 NUT, PLAIN, HEXAGON	EA	4
2	17	PAOZZ	5310-00-929-6395	MS35338-136	96906 WASHER, LOCK	EA	4
2	18	PAOZZ	5935-00-725-0889	MS3102E24-22P	96906 CONNECTOR	EA	1
2	19	PAOZZ	5305-00-068-6534	MS35233-31	96906 SCREW, MACHINE	EA	4
2	20	PAOZZ	5310-00-880-5976	MS15795-806	96906 WASHER, FLAT	EA	4
2	21	PAOZZ	5305-00-989-7435	MS35207-264	96906 SCREW, MACHINE	EA	12
2	22	PAOZZ	5310-00-809-8546	MS27183-8	96906 WASHER, FLAT	EA	12
2	23	PAOZZ	5945-00-008-4333	ACC330UM20	04009 RELAY, ARMATURE	EA	2
2	24	PAOZZ	5310-00-045-3296	MS35338-43	96906 WASHER, LOCK	EA	12
2	25	PAOZZ	5999-00-476-1037	42410	04009 HEATER, THERMAL	EA	2
2	26	PAOZZ	6110-01-006-6035	ACS3302U20	04009 STARTER, MOTOR	EA	2
2	27	PAOZZ	5999-00-383-2139	42008	04009 HEATER, THERMAL	EA	2
2	28	PAOZZ	5305-00-984-6196	MS35206-248	96906 SCREW, MACHINE	EA	4
2	29	PAOZZ	5310-00-045-3299	MS35338-42	96906 WASHER, LOCK	EA	4
2	30	PAOZZ	5310-00-809-8544	MS27183-7	96906 WASHER, FLAT	EA	4
2	31	PAFZZ	5930-00-786-3535	A36AHB3	92578 THERMOSTAT, FLOW	EA	1
2	32	PAOZZ		MS27130A14	96906 NUT, PLAIN, BLIND	EA	4

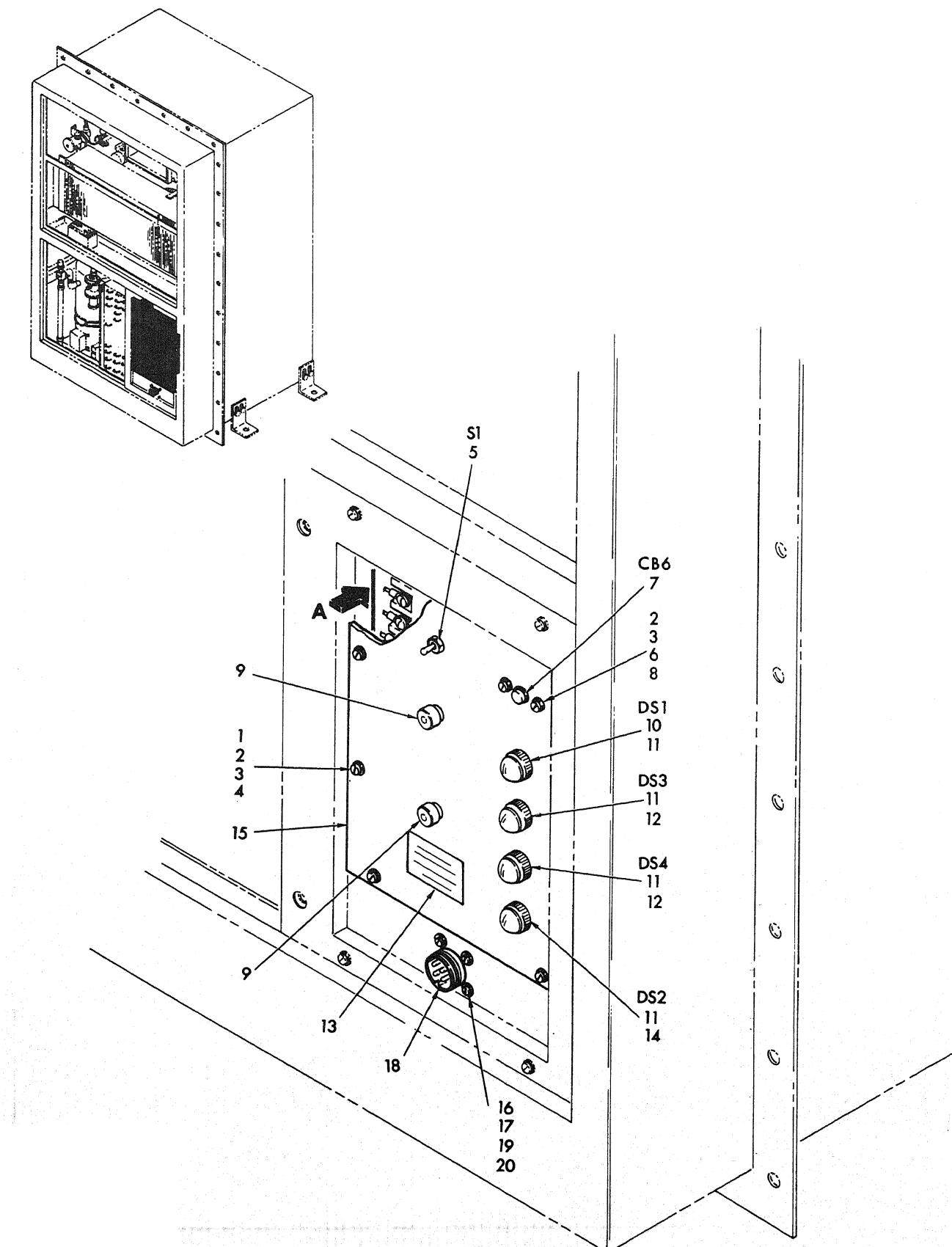
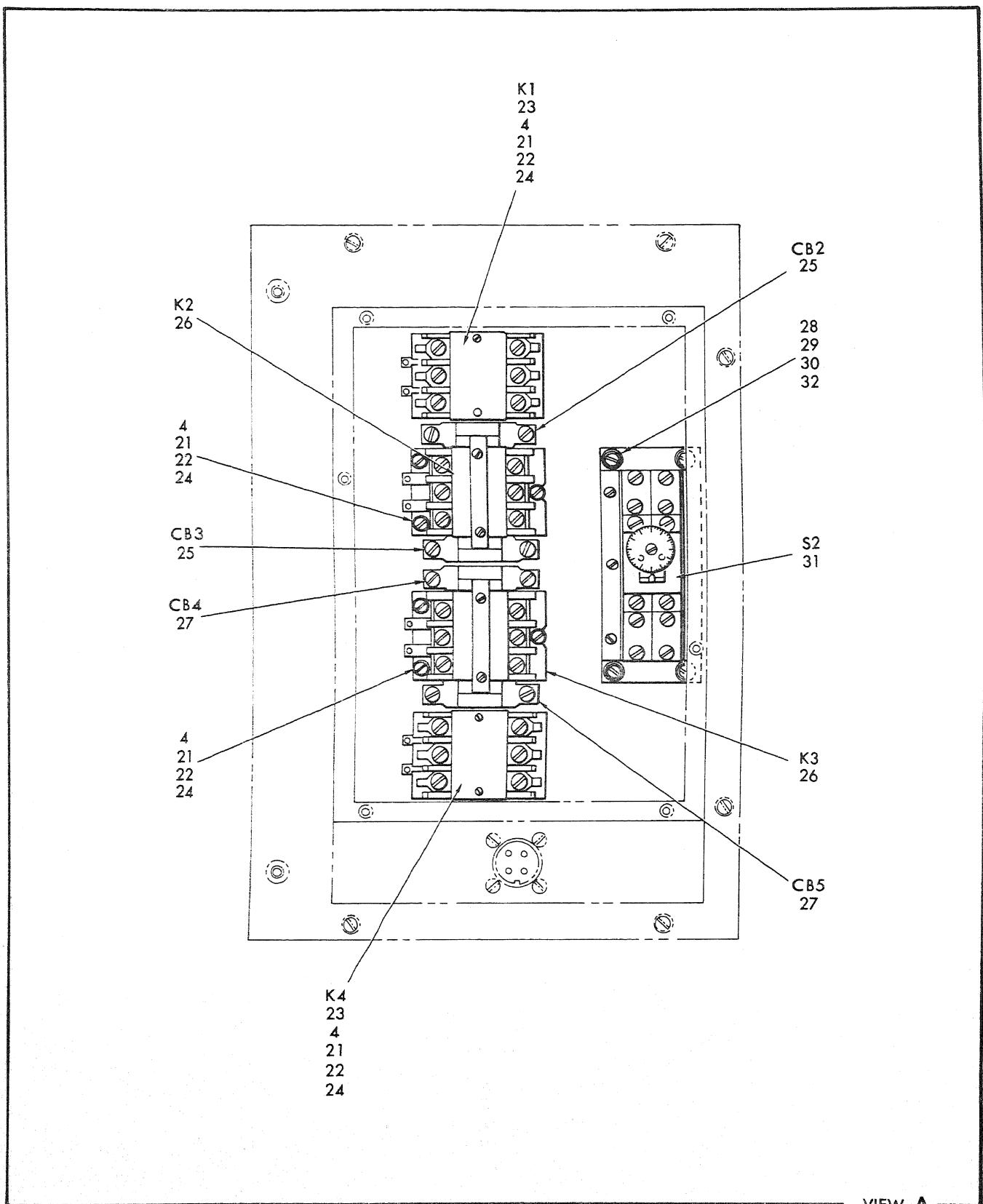


FIG 2. CONTROL AND INDICATOR SECTION (SHEET 1 OF 2)

TS024003



VIEW A

FIG 2. CONTROL AND INDICATOR SECTION (SHEET 2 OF 2)

TS024004

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	QTY INC IN UNIT	
GROUP 03 CONDENSER FAN AND MOTOR SECTION								
3	1	PBOZZ		AK544-3/4	71470	PULLEY, GROOVE.....	EA	1
3	2	PAOZZ		AP36	71470	BELT, POWER.....	EA	1
3	3	PBOZZ		1VP44-5-8	71470	PULLEY, GROOVE.....	EA	1
3	4	XBOZZ		20V2-108	98457	PLATE, INSTRUCTION.....	EA	1
3	5	PAOZZ	5310-00-964-3806	MS51922-9	98905	NUT, SELF-LOCKING.....	EA	8
3	6	PAOZZ	5310-00-087-7493	MS27183-13	98905	WASHER, FLAT.....	EA	8
3	7	PAOZZ	6105-00-377-8115	RM3154	U5474	MOTOR, ALTERNATING.....	EA	1
3	8	PAOZZ	5310-00-809-4C61	MS27183-15	98905	WASHER, FLAT.....	EA	4
3	9	PAOZZ	5340-00-070-2C64	AR151	35197	MOUNT, RESILIENT.....	EA	8
3	10	PAOZZ	5306-00-225-8501	MS90725-37	98905	SCREW, MACHINE.....	EA	4
3	11	PAOZZ		20V2-101M1	98457	FAN, CENTRIFUGAL.....	EA	1
3	12	XBFZZ		F3U	22336	TUBE, FITTING, FLEX.....	EA	1
3	13	XBFZZ	4730-00-821-3C37	W2321	41947	ELBOW, TUBE.....	EA	8
3	14	XBFZZ	4730-00-821-9184	W40350	41947	TEE, TUBE.....	EA	1
3	15	XBFZZ	4730-00-839-6380	W2326	41947	ELBOW, TUBE.....	EA	2
3	16	PAFZZ	4730-00-822-1277	W1715	41947	BUSHING, SLEEVE.....	EA	1
3	17	XBFZZ	4730-00-254-6450	W2022	41947	ELBOW, TUBE.....	EA	3
3	18	PAFZZ	4730-00-251-1377	W1720	41947	BUSHING, SLEEVE.....	EA	1
3	19	XBFZZ	4730-00-345-11C6	W4001	41947	TEE, TUBE.....	EA	2
3	20	XBFZZ		W2817	41947	ELBOW, TUBE.....	EA	3
3	21	XBFZZ	4730-00-027-0773	W2334	41947	ELBOW, TUBE.....	EA	1

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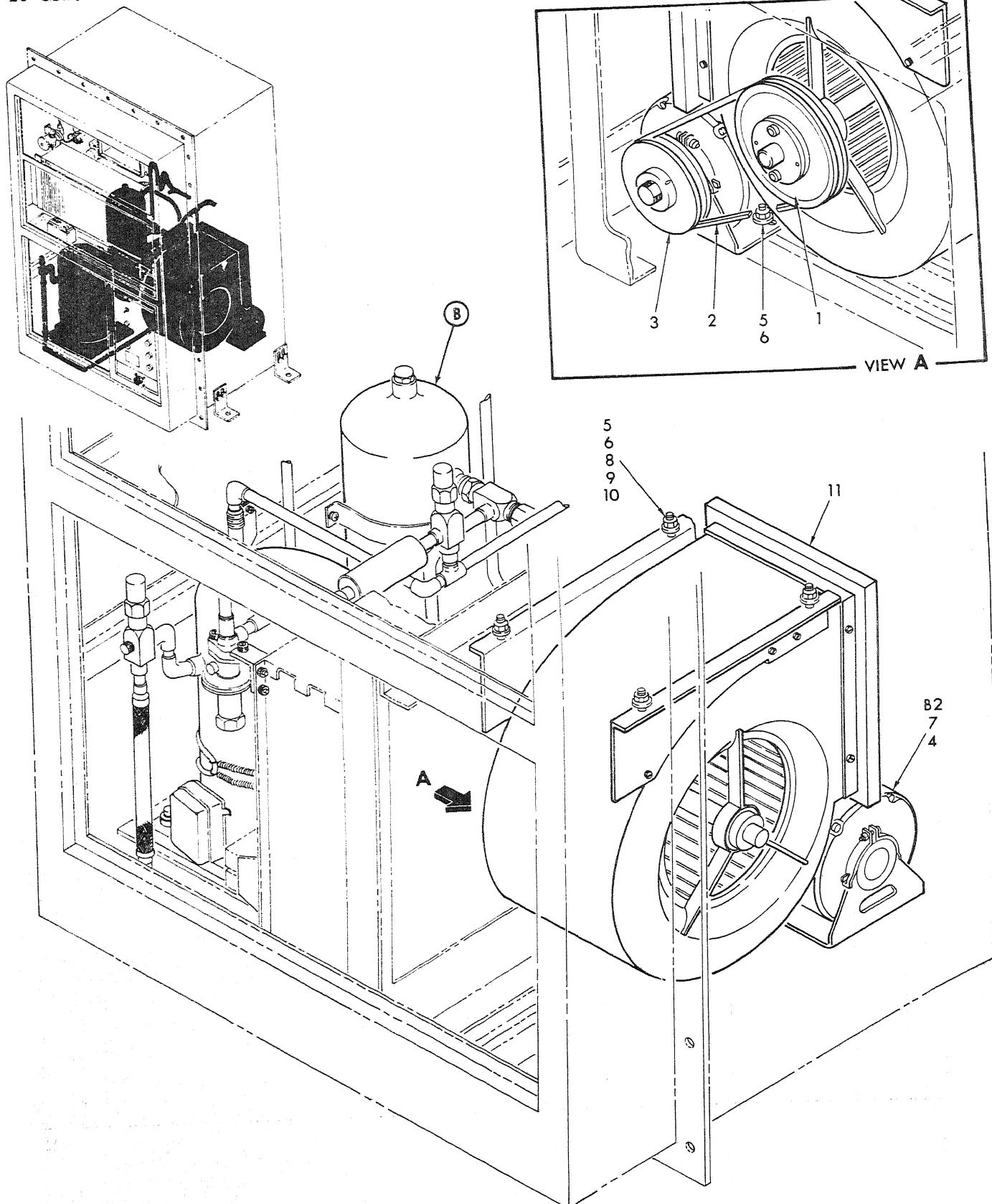


FIG 3. CONDENSER FAN AND MOTOR SECTION (SHEET 1 OF 2)

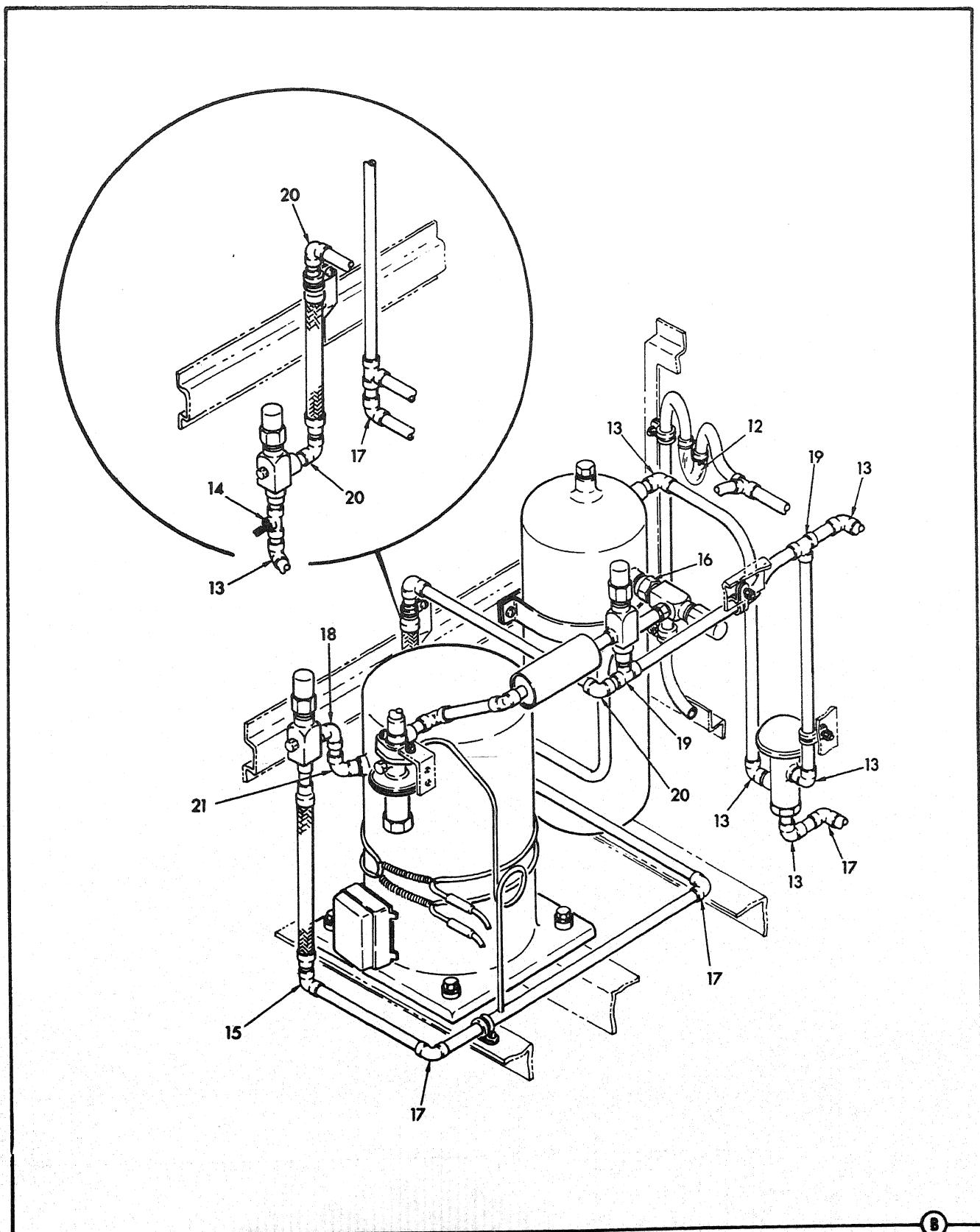


FIG 3. CONDENSER FAN AND MOTOR SECTION (SHEET 2 OF 2)

TS024006

(1) ILLUSTRATION		(2)	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) USABLE ON CODE	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE						
GROUP 04 COMPRESSOR SECTION								
4	1	PA0ZZ	5310-00-877-5797	MS21044N3	90900	NUT, PLAIN, BLIND.....		EA
4	2	PA0ZZ	5305-00-984-7341	MS35191-273	90900	SCREW, MACHINE.....		EA
4	3	PA0ZZ	5340-00-009-0506	MS21105-7	90900	CLAMP, LOOP.....		EA
4	4	PAFZZ	5340-00-905-4002	A14021	91947	PLUG, FUSIBLE.....		EA
4	5	PA0ZZ	5310-01-009-9785	MS27130-20	90900	NUT, PLAIN, BLIND.....		EA
4	6	PA0ZZ	5305-00-993-1848	MS35207-265	90900	SCREW, MACHINE.....		EA
4	7	PA0ZZ	5310-00-809-8546	MS27183-8	90900	HASHER, FLAT.....		EA
4	8	PA0ZZ	5310-00-045-3296	MS35338-43	90900	HASHER, LOCK.....		EA
4	9	PA0ZZ	5305-00-068-0501	MS90725-5	90900	SCREW, MACHINE.....		EA
4	10	PA0ZZ	5310-00-582-5565	MS35338-44	90900	HASHER, LOCK.....		EA
4	11	PA0ZZ	5310-00-809-4058	MS27183-10	90900	HASHER, FLAT.....		EA
4	12	XBFZZ		20V2-2P7	90437	BRACKET, RECEIVER.....		EA
4	13	PA0ZZ	5310-00-959-1488	MS51922-21	90900	NUT, PLAIN.....		EA
4	14	PA0ZZ	5310-00-809-4061	MS27183-15	90900	HASHER, FLAT.....		EA
4	15	PBFZZ		L618	97931	RECEIVER, LIQUID.....		EA
4	16	PA0ZZ	4820-01-065-2000	HPB548	70205	VALVE, REGULATING.....		EA
4	17	PA0ZZ	5305-00-989-7435	MS35207-264	90900	SCREW, MACHINE.....		EA
4	18	PBFZZ	4820-00-869-3261	NC3-10	90437	VALVE, CROSS.....		EA
4	19	XBFZZ		20V583	90437	BRACKET, DOUBLE.....		EA
4	20	PA0ZZ	5310-00-141-3062	MS27130A26	90900	NUT, PLAIN, BLIND.....		EA
4	21	PBFZZ		NS0224	78402	STRAINER, SEDIMENT.....		EA
4	22	PA0ZZ	5340-00-497-5880	AN742-12C	98044	CLAMP, LOOP.....		EA
4	23	PAFZZ	4720-00-059-3701	VAF4	77089	HOSE ASSEMBLY, METAL.....		EA
4	24	PAFZZ	4820-00-590-8654	CP0415H	70205	VALVE, REGULATING.....		EA
4	25	XBFZZ		20V524	90437	BRACKET, ANGLE.....		EA
4	26	PAFZZ	4720-00-009-7279	B2-4-3C	90437	HOSE ASSEMBLY, METAL.....		EA
4	27	PAFZZ	4520-00-537-5955	018-0018-00	14509	HEATER, CHANKCASE.....		EA
4	28	PA0ZZ	5306-00-225-8505	MS90725-41	90900	SCREW, MACHINE.....		EA
4	29	PA0ZZ	5310-00-167-0767	AN97D-5	98044	HASHER, LOCK.....		EA
4	30	PA0ZZ	5310-00-087-7493	MS27183-13	90900	HASHER, FLAT.....		EA
4	31	PAFZZ	4130-01-068-5302	1423-1M1	90437	COMPRESSOR.....		EA
4	32	PA0ZZ	5310-00-984-3806	MS51922-9	90900	NUT, SELF-LOCKING.....		EA
4	33	PAFZZ	5930-00-064-3207	AP20-4016	90625	SWITCH, PRESSURE.....		EA
4	34	PAFZZ	5930-00-063-7779	AP21-4013	90625	SWITCH, PRESSURE.....		EA
4	35	PAFZZ	4130-01-072-8321	20V3-2	90437	COIL, CONDENSER.....		EA

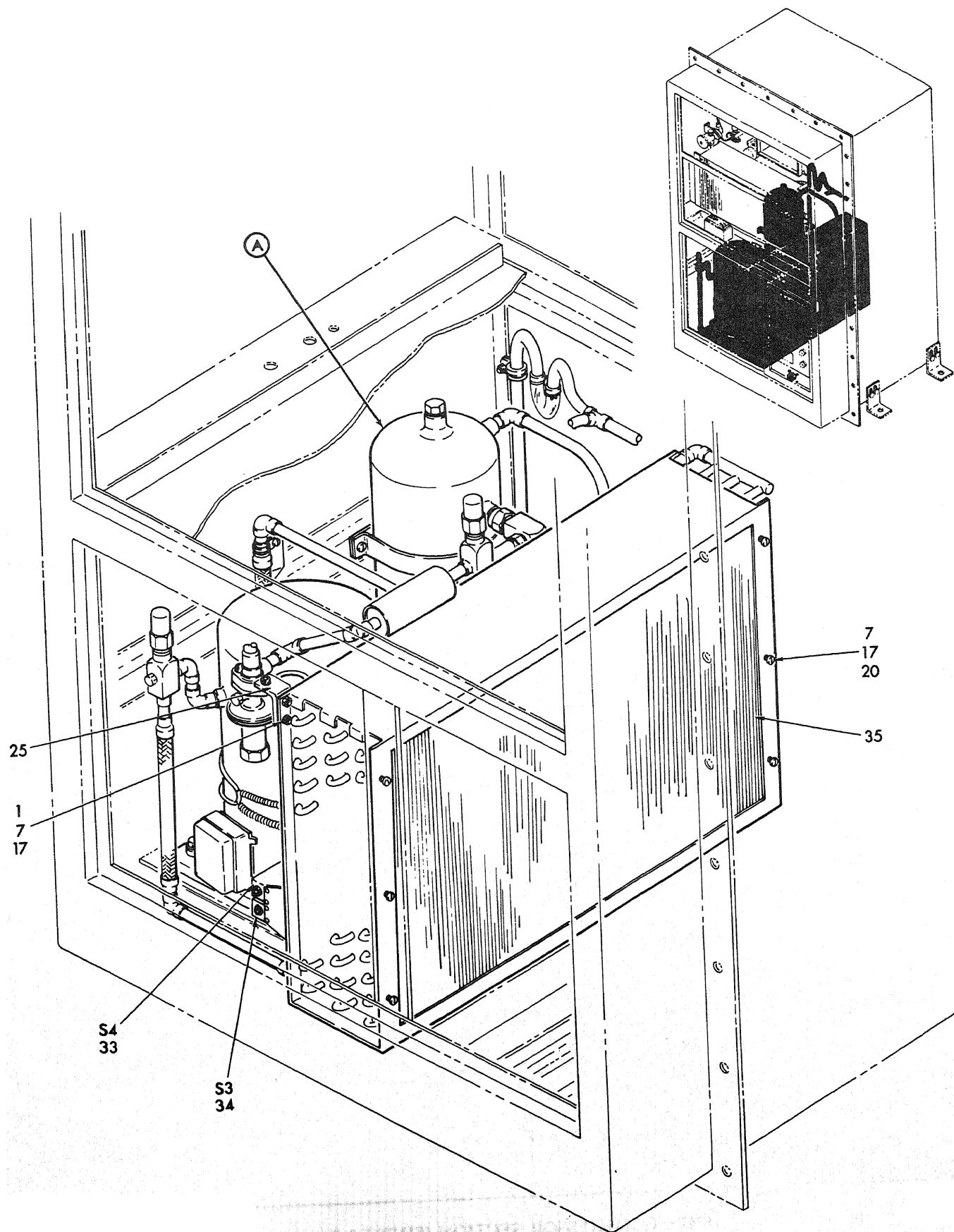


FIG 4. COMPRESSOR SECTION (SHEET 1 OF 2)

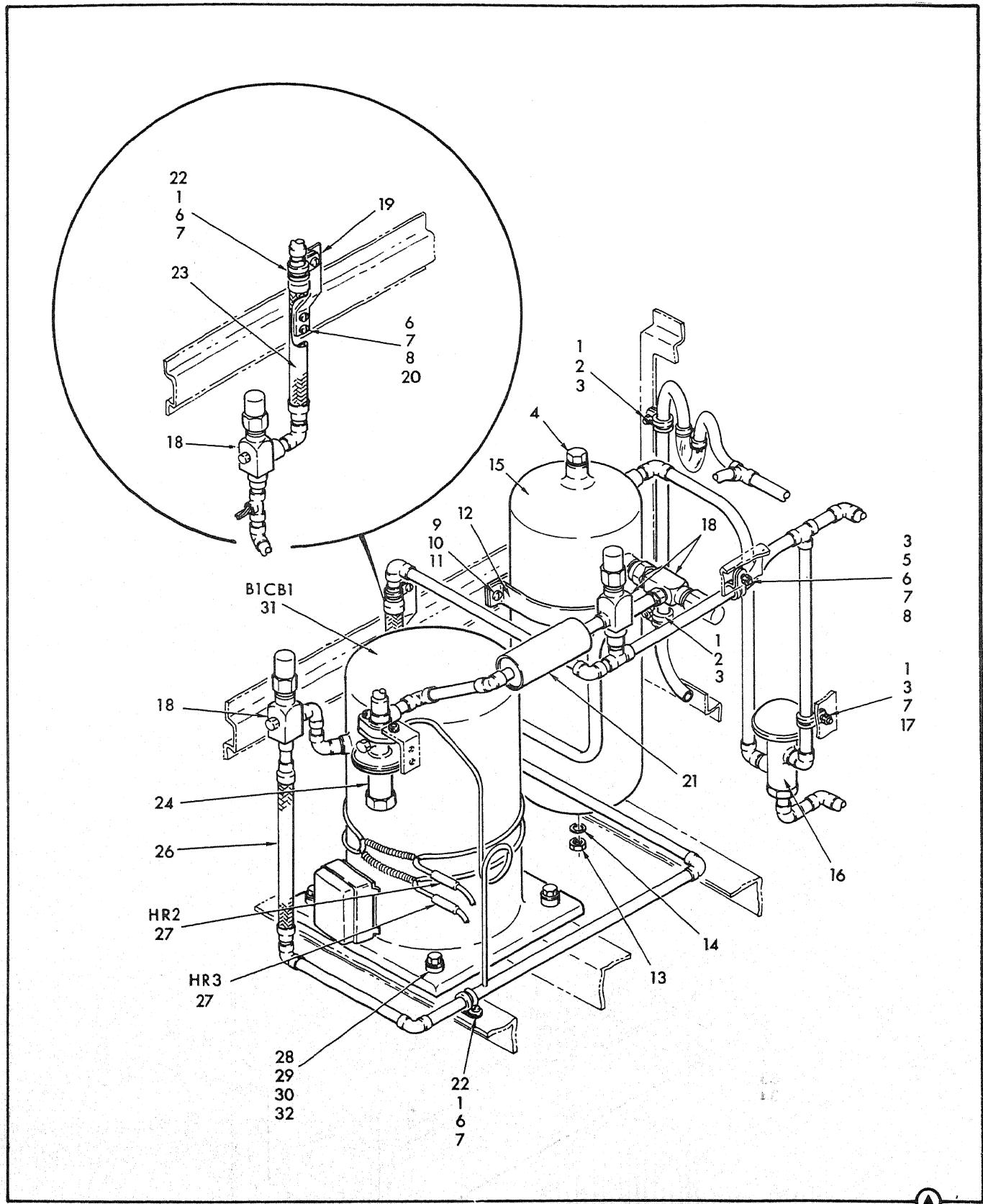


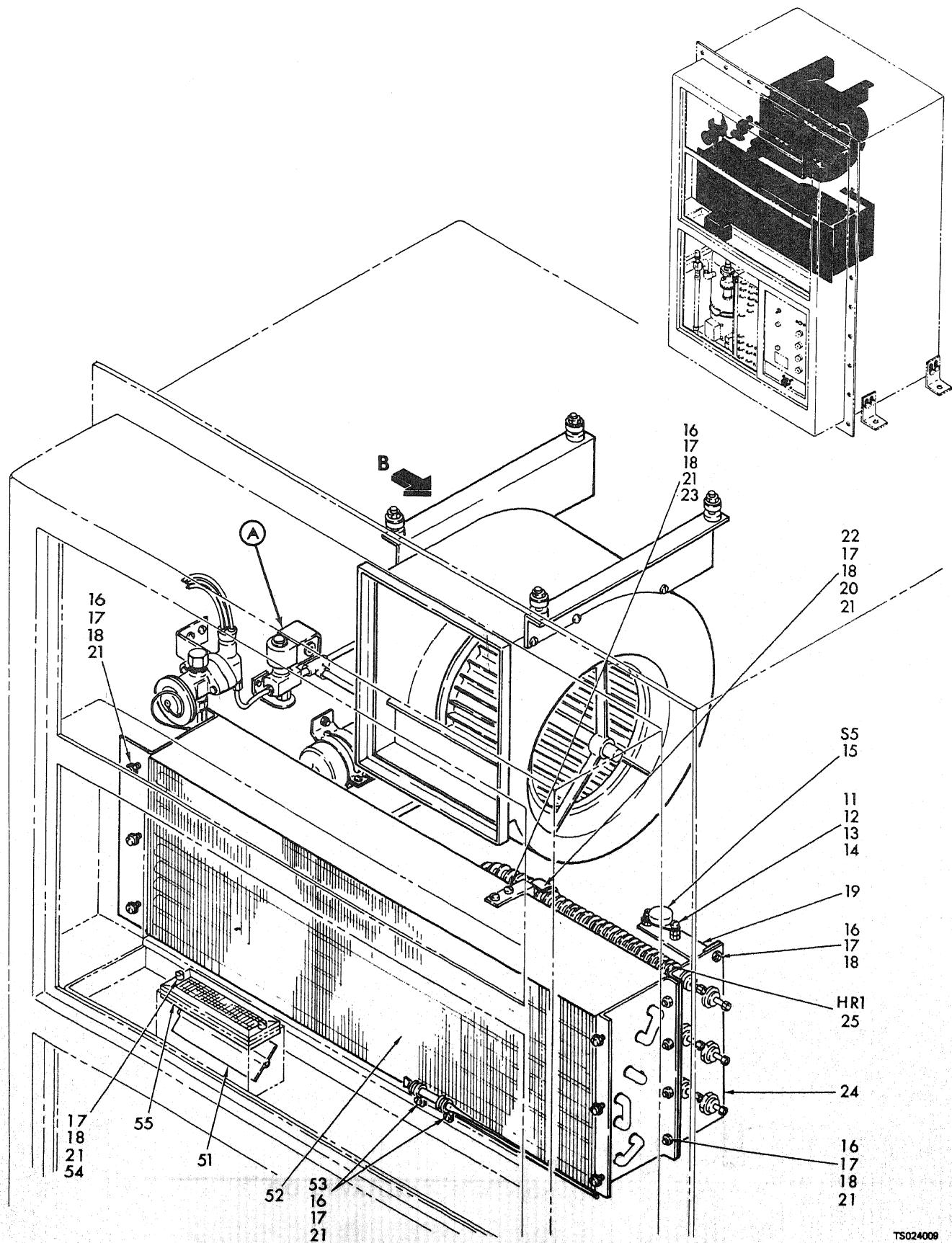
FIG 4. COMPRESSOR SECTION (SHEET 2 OF 2)

TS024003

(1) ILLUSTRATION		(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	(7) U/M	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.					USABLE ON CODE		
GROUP 05 EVAPORATOR SECTION								
5	1	PA0ZZ	5306-00-225-8501	MS90725-37	969J6	SCREW, MACHINE.....	EA	4
5	2	PA0ZZ	5310-00-984-3806	MS51922-9	969U6	NUT, SELF-LOCKING.....	EA	8
5	3	PA0ZZ	5310-00-809-4C61	MS27183-15	969J6	WASHER, FLAT.....	EA	4
5	4	PA0ZZ	5310-00-087-7493	MS27183-13	969U6	WASHER, FLAT.....	EA	12
5	5	PA0ZZ	5340-00-C70-2C64	AR151	35197	MOUNT, RESILIENT.....	EA	8
5	6	PA0ZZ		6F2-3M1	984J7	FAN, CENTRIFUGAL.....	EA	1
5	7	PA0ZZ	3030-00-580-9527	AP42	71170	BELT, POWER.....	EA	1
5	8	P80ZZ		AK64H	71170	PULLEY, GROOVE.....	EA	1
5	9	P80ZZ		1VP44-5-8	71170	PULLEY, GROOVE.....	EA	1
5	10	PA0ZZ		RM3108	U5474	MOTOR, ALTERNATING.....	EA	1
5	11	PA0ZZ	5305-00-543-4346	MS35234-30	969U6	SCREW, MACHINE.....	EA	2
5	12	PA0ZZ	5310-00-934-9755	MS35650-362	969U6	NUT, PLAIN, HEXAGON.....	EA	2
5	13	PA0ZZ	5310-00-045-4C07	MS35338-41	969J6	WASHER, LOCK.....	EA	2
5	14	PA0ZZ	5310-00-782-1349	MS15795-804	969U6	WASHER, FLAT.....	EA	2
5	15	PAFZ	5930-00-842-3378	GY5-3	984J7	SWITCH, THERMOSTATIC.....	EA	1
5	16	PA0ZZ	5305-00-993-1848	MS35207-265	969U6	SCREW, MACHINE.....	EA	19
5	17	PA0ZZ	5310-C1-009-9785	MS27130-20	969U6	NUT, PLAIN, BLIND.....	EA	24
5	18	PA0ZZ	5310-00-809-8546	MS27183-8	969U6	WASHER, FLAT.....	EA	41
5	19	XBFZZ		20V5311	984J7	BRACKET, SWITCH.....	EA	1
5	20	PA0ZZ	5305-00-989-7435	MS35207-264	969U6	SCREW, MACHINE.....	EA	5
5	21	PA0ZZ	5310-00-045-3296	MS35338-43	969U6	WASHER, LOCK.....	EA	23
5	22	PA0ZZ		MW2-10-3	984J7	CLAMP, LOOP.....	EA	3
5	23	XBFZZ		20V2-2P6	984J7	BRACKET, ANGLE.....	EA	1
5	24	XBFZZ		20V2-2P5	984J7	BRACKET, ANGLE.....	EA	1
5	25	PA0ZZ	4540-01-065-6359	268A5F26BW	74924	HEATER, SPACE.....	EA	1
5	26	XBOZZ		20V2-108	984J7	PLATE, INSTRUCTION.....	EA	3
5	27	PA0ZZ		MS35224-63	969U6	SCREW, MACHINE.....	EA	6
5	28	PA0ZZ	5310-00-877-5797	MS21044N3	969U6	NUT, PLAIN, BLIND.....	EA	2
5	29	PA0ZZ	5340-00-559-6128	AN742-4C	984J4	CLAMP, LOOP.....	EA	12
5	30	PA0ZZ	5340-00-104-7581	MS21104C4	969U6	CLAMP, LOOP.....	EA	2
5	31	PA0ZZ	5340-00-497-9880	AN742-12C	984J4	CLAMP, LOOP.....	EA	1
5	32	PA0ZZ	5305-00-993-1E51	MS35207-267	969U6	SCREW, MACHINE.....	EA	2
5	33	PAFZ	4810-00-881-3005	200R4S3T	70255	VALVE, SOLENOID.....	EA	4
5	34	XBFZZ	4730-00-263-6460	W4000	41947	TEE, TUBE.....	EA	1
5	35	PAFZ		AMI1SS3	70255	INDICATOR, LIQUID.....	EA	1
5	36	XBFZZ	4730-00-277-7522	W2312	41947	ELBOW, TUBE.....	EA	1
5	37	PA0ZZ	5305-00-984-7341	MS35191-273	969J6	SCREW, MACHINE.....	EA	1
5	38	PAFZ	4130-00-871-5633	ADK163S	70255	DEHYDRATOR.....	EA	1
5	39	XBFZZ		SS107	984J7	BRACKET, CLAMP.....	EA	1

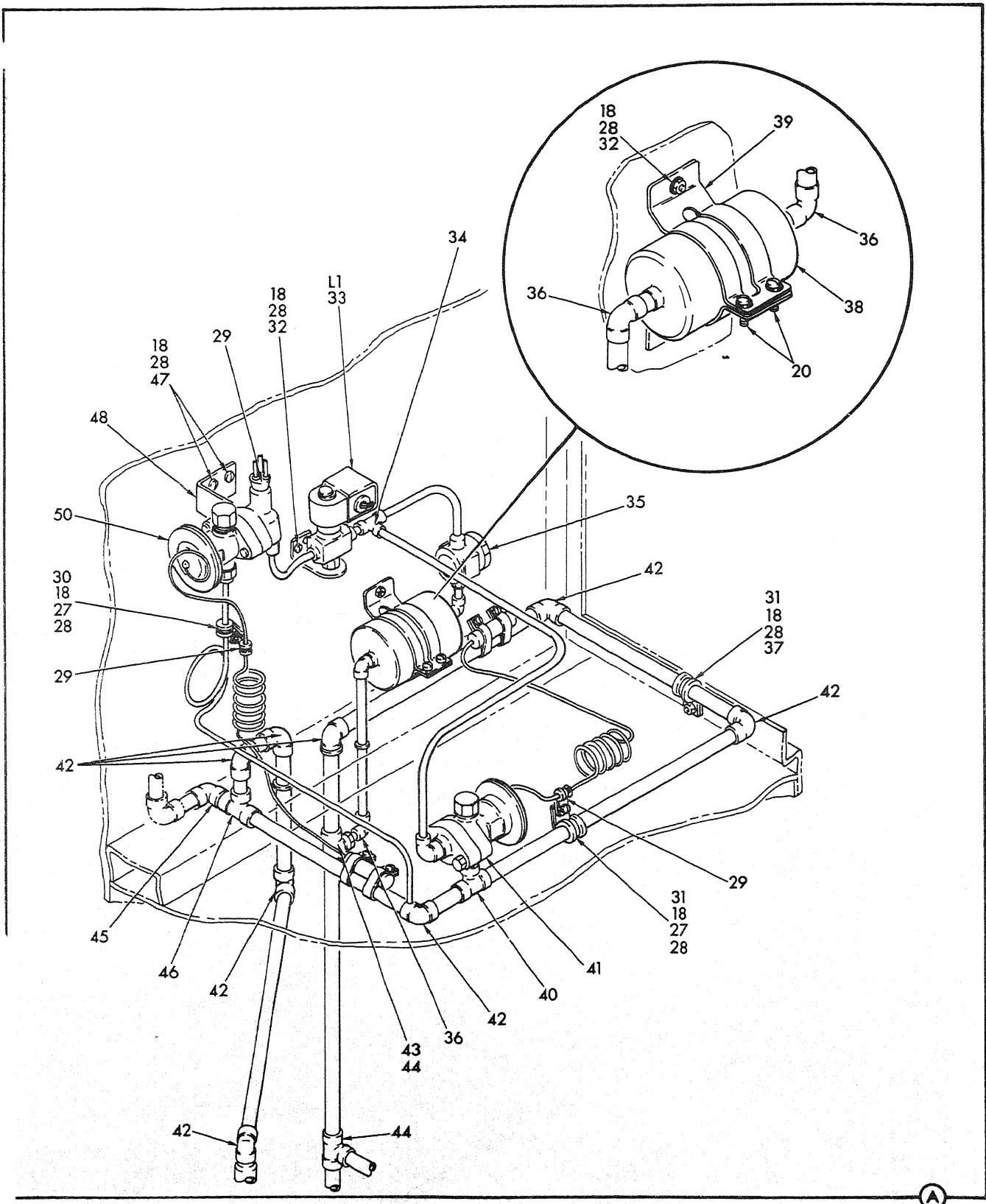
(1) ILLUSTRATION		(2) FIG NO.	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) QTY INC IN U/M	(8) QTY INC IN UNIT
5	40	XBFZZ	4730-00-263-6471	W4007	41947	TEE,TUBE.....	EA	1
5	41	PAFZZ		LCL2A	70255	VALVE,EXPANSION.....	EA	1
5	42	XBFZZ	4730-00-254-6450	W2022	41947	ELBOW,TUBE.....	EA	7
5	43	PAFZZ	4730-00-809-9669	W1717	41947	BUSHING,SLEEVE.....	EA	1
5	44	XBFZZ	4730-00-989-1903	W4043	41947	TEE,TUBE.....	EA	2
5	45	XBFZZ	4730-00-839-6380	W2326	41947	ELBOW,TUBE.....	EA	3
5	46	XBFZZ	4730-00-263-6472	W4006	41947	TEE,TUBE.....	EA	1
5	47	PAOZZ	5305-00-989-6265	MS35207-262	96906	SCREW,MACHINE.....	EA	2
5	48	XBFZZ		20V2-110	98437	BRACKET.....	EA	1
5	49	XBFZZ		1620-3-3-16-2	78462	DISTRIBUTOR.....	EA	1
5	50	PAFZZ		TCLE200HW100	70255	VALVE,EXPANSION.....	EA	1
5	51	XBOZZ		20V2-2P9	98437	DAMPENER,FLUID.....	EA	1
5	52	PAFZZ		20V3-7	98437	COIL,EVAPORATOR.....	EA	1
5	53	PAOZZ	5340-00-009-0506	MS21105-7	96906	CLAMP,LOOP.....	EA	4
5	54	PAOZZ	5305-00-995-3441	MS35207-269	96906	SCREW,MACHINE.....	EA	2
5	55	PAOZZ	4130-01-072-8272	20V2-106	98437	FILTER ELEMENT,AIR.....	EA	1
GROUP 06 BULK MATERIALS LIST								
		PAFZZ	5999-00-937-5824	26106	07700	SHIELDING GASKET.....	FT	19
		PAFZZ	6145-00-578-7514	M5086-2-12-9	81349	WIRE,ELECTRICAL.....	FT	265
		PAFZZ	6145-00-578-6602	M5086-2-18-9	81349	WIRE,ELECTRICAL.....	FT	105
		PAFZZ	7510-00-031-7498	NDT30	62814	TAPE,PRESSURE.....	FT	50
		PAFZZ	4710-00-203-3173	WWT775-1-200XR03 2 WALL	81348	TUBE,COPPER.....	FT	9
		PAFZZ	4710-00-203-3171	WWT775-1-400XR03 0 WALL	81348	TUBE,COPPER.....	FT	4
		PAFZZ	4710-00-203-3172	WWT775-3-800XR03 2 WALL	81348	TUBE,COPPER.....	FT	2
		PAFZZ	4710-00-203-3174	WWT775-5-800XR03 5 WALL	81348	TUBE,COPPER.....	FT	11
		PAFZZ		WWT799TYPELF OR MA CL2-7-8	81348	TUBE,COPPER.....	FT	2

TM 5-4120-343-24P
TO 35E9-179-14



TS024008

FIG 5. EVAPORATOR SECTION (SHEET 1 OF 3)



TS024010

FIG 5. EVAPORATOR SECTION (SHEET 2 OF 3)

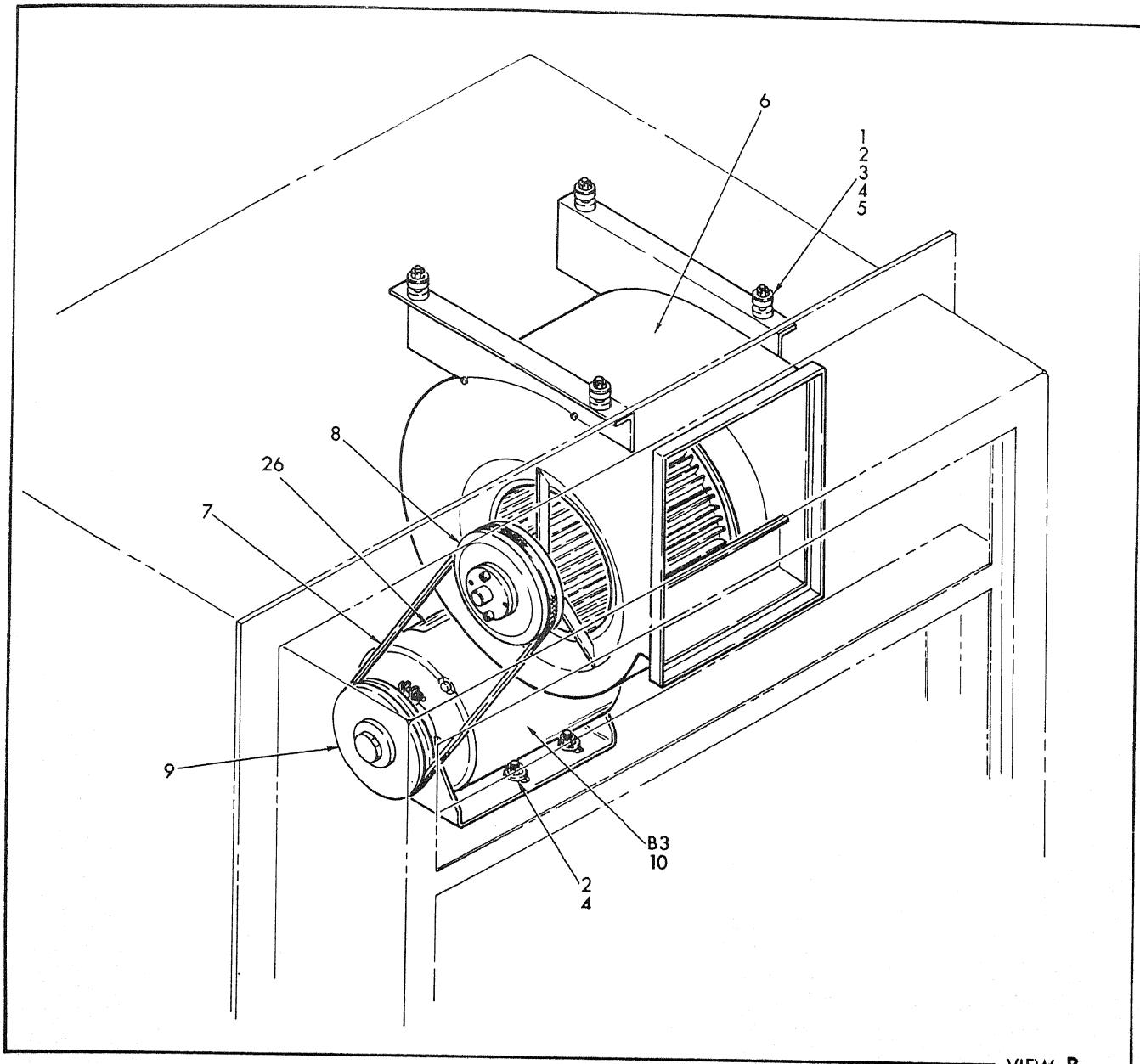


FIG 5. EVAPORATOR SECTION (SHEET 3 OF 3)

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5945-00-008-4333	2	23	5930-00-615-9367	2	5
5340-00-009-0506	4	3	6210-00-683-0133	2	10
5340-00-009-0506	5	53	5935-00-725-0889	2	18
4720-00-009-7279	4	26	5310-00-777-6032	1	20
4730-00-027-0773	3	21	5310-00-782-1349	5	14
7510-00-031-7498			5930-00-786-3535	2	31
5310-00-045-3296	1	13	5310-00-809-4058	4	11
5310-00-045-3296	2	24	5310-00-809-4061	3	8
5310-00-045-3296	4	8	5310-00-809-4061	4	14
5310-00-045-3296	5	21	5310-00-809-4061	5	3
5310-00-045-3299	2	29	5310-00-809-8544	2	30
5310-00-045-4007	5	13	5310-00-809-8546	1	14
5305-00-059-3660	2	1	5310-00-809-8546	2	22
5305-00-059-3662	2	8	5310-00-809-8546	4	7
4720-00-059-3701	4	23	5310-00-809-8546	5	18
5930-00-063-7779	4	34	4730-00-809-9669	5	43
5930-00-064-3207	4	33	4730-00-821-3037	3	13
5305-00-068-0501	4	9	4730-00-821-9184	3	14
5305-00-068-6534	2	19	4730-00-822-1277	3	16
5340-00-070-2064	3	9	5365-00-838-0422	1	18
5340-00-070-2064	5	5	4730-00-839-6380	3	15
5925-00-077-8972	2	7	4730-00-839-6380	5	45
5310-00-087-7493	1	3	5930-00-842-3378	5	15
5310-00-087-7493	3	6	4820-00-869-3261	4	18
5310-00-087-7493	4	30	4130-00-871-5633	5	38
5310-00-087-7493	5	4	5310-00-877-5797	4	1
5340-00-104-7581	5	30	5310-00-877-5797	5	28
5310-00-141-3062	1	5	5310-00-880-5976	2	20
5310-00-141-3062	4	20	4810-00-881-3005	5	33
6240-00-143-3049	2	11	5340-00-905-4002	4	4
5310-00-167-0767	4	29	5310-00-929-6395	2	17
4710-00-203-3171			5310-00-933-8121	1	7
4710-00-203-3172			5310-00-933-8121	2	2
4710-00-203-3173			5310-00-934-9755	5	12
4710-00-203-3174			5310-00-934-9761	2	16
5306-00-225-8501	3	10	5310-00-934-9765	2	6
5306-00-225-8501	5	1	5999-00-937-5824	4	13
5306-00-225-8505	4	28	5310-00-959-1488	1	2
5305-00-225-9081	1	10	5310-00-984-3806	3	5
5305-00-247-1325	1	8	5310-00-984-3806	4	32
4730-00-251-1377	3	18	5310-00-984-3806	5	2
4730-00-254-6450	3	17	5305-00-984-6196	2	28
4730-00-254-6450	5	42	5305-00-984-7341	4	2
4730-00-263-6460	5	34	5305-00-984-7341	5	37
4730-00-263-6471	5	40	4730-00-989-1903	5	44
4730-00-263-6472	5	46	5305-00-989-6265	5	47
4730-00-277-7922	5	36	5305-00-989-7435	2	21
5325-00-282-7471	1	17	5305-00-989-7435	4	17
6210-00-299-5106	2	14	5305-00-989-7435	5	20
4730-00-345-1106	3	19	5305-00-989-7435	1	15
6105-00-377-8115	3	7	5305-00-993-1848	4	6
5999-00-383-2139	2	27	5305-00-993-1848	5	16
5325-00-410-3130	1	21	5305-00-993-1848	5	32
5320-00-426-4916	1	32	5305-00-993-1851	2	9
5999-00-476-1037	2	25	6110-00-994-8356	5	54
5340-00-497-9880	4	22	5305-00-995-3441	1	26
5340-00-497-9880	5	31	6110-01-006-6035	2	12
6210-00-504-1093	2	12	5310-01-009-9785	4	4
4520-00-537-5965	4	27	5310-01-009-9785	5	5
5305-00-543-4346	5	11	5310-01-009-9785	5	17
5310-00-550-5054	1	6	5325-01-021-1121	1	22
5310-00-550-5054	2	3	5325-01-021-1928	4	24
5340-00-559-6128	5	29	4820-01-065-2000	4	16
6145-00-578-6602			4540-01-065-6359	5	25
6145-00-578-7514			4130-01-068-5302	4	31
3030-00-580-9527	5	7	4130-01-072-8271	1	25
5320-00-582-3522	1	19	4130-01-072-8272	5	55
5310-00-582-5965	4	10	4130-01-072-8321	4	35
4820-00-590-8654	4	24			

PART NUMBER	FIG. NO.	ITEM NO.	PART NUMBER	FIG. NO.	ITEM NO.	
ACC330UM20	04009	2	23	AN742-12C	88044	4
AC53302U20	04009	2	26	AN742-12C	88044	5
ADK163S	70255	5	38	AN742-4C	88044	5
AK54H-3/4	71176	3	1	AN970-5	88044	4
AK64H	71176	5	8	AP20-4016	80625	4
AM11SS3	70255	5	35	AP21-4013	80625	4

SECTION IV

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER	FIG. NO.	ITEM NO.	PART NUMBER	FIG. NO.	ITEM NO.		
AP36	71176	3	2	MS51958-66	96906	2	8
AP42	71176	5	7	MS90725-36	96906	1	10
AR151	35197	3	9	MS90725-37	96906	3	10
AR151	35197	5	5	MS90725-37	96906	5	1
A14021	41947	4	4	MS90725-41	96906	4	28
A36AHB3	92578	2	31	MS90725-5	96906	4	9
B2-4-3C	98437	4	26	MW2-10-3	98437	5	22
CPRH35H	70255	4	24	M5086-2-12-9	81349		
DANIELS621L	71747	1	4	M5086-2-18-9	81349		
F3U	22336	3	12	NC3-10	98437	4	18
GY5-3	98437	5	15	NDT30	82814		
HP8548	70255	4	16	NS0224	78462	4	21
LCL2A	70255	5	41	PDM5	73803	2	7
L618	87531	4	15	RM3108	05472	5	10
MS15795-804	96906	5	14	RM3154	05472	3	7
MS15795-806	96906	2	20	SS107	98437	5	39
MS15795-809	96906	1	6	SS196	98437	1	33
MS15795-809	96906	2	3	SS720-20V	98437	1	26
MS21044N3	96906	4	1	TCLE200HW100	70255	5	50
MS21044N3	96906	5	28	VAF4	77089	4	23
MS21104C4	96906	5	30	WWT775-1-200XR032WALL	81348		
MS21105-7	96906	4	3	WWT775-1-400XR030WALL	81348		
MS21105-7	96906	5	53	WWT775-3-800XR032WALL	81348		
MS27130-20	96906	1	12	WWT775-5-800XR035WALL	81348		
MS27130-20	96906	2	4	WWT799TYPPELFORMACL2-7-8	81348		
MS27130-20	96906	4	5	W1715	41947	3	16
MS27130A14	96906	5	17	W1717	41947	5	43
MS27130A26	96906	2	32	W1726	41947	3	18
MS27130A26	96906	1	5	W2022	41947	3	17
MS27183-10	96906	4	20	W2022	41947	5	42
MS27183-13	96906	4	11	W2312	41947	5	36
MS27183-13	96906	1	3	W2321	41947	3	13
MS27183-13	96906	3	6	W2326	41947	3	15
MS27183-13	96906	4	30	W2326	41947	5	45
MS27183-13	96906	5	4	W2334	41947	3	21
MS27183-15	96906	3	8	W2817	41947	3	20
MS27183-15	96906	4	14	W4000	41947	5	34
MS27183-15	96906	5	3	W4001	41947	3	19
MS27183-7	96906	2	30	W4006	41947	5	46
MS27183-8	96906	1	14	W4007	41947	5	40
MS27183-8	96906	2	22	W40350	41947	3	14
MS27183-8	96906	4	7	W4043	41947	5	44
MS27183-8	96906	5	18	018-0018-00	14569	4	27
MS3102E24-22P	96906	2	18	1VP44-5-8	71176	3	3
MS35059-21	96906	2	5	1VP44-5-8	71176	5	9
MS35191-273	96906	4	2	14-18-150-24	94222	1	21
MS35191-273	96906	5	37	14Z3-1M1	98437	4	31
MS35205-248	96906	2	28	1601-0410	19738	1	19
MS35207-262	96906	5	47	1601-0613	19738	1	32
MS35207-264	96906	2	21	1620-3-3-16-2	78462	5	49
MS35207-264	96906	4	17	20V1-1P1	98437	1	23
MS35207-265	96906	5	20	20V1-1P2	98437	1	27
MS35207-265	96906	1	15	20V1-1P3	98437	1	31
MS35207-265	96906	4	6	20V1-1P4	98437	1	30
MS35207-267	96906	5	16	20V2-1	98437	1	1
MS35207-269	96906	5	32	20V2-101M1	98437	3	11
MS35224-63	96906	5	54	20V2-105	98437	1	25
MS35233-31	96906	5	27	20V2-106	98437	5	55
MS35234-30	96906	2	19	20V2-107M1	98437	1	16
MS35234-65	96906	5	11	20V2-108	98437	1	28
MS35338-136	96906	1	8	20V2-108	98437	2	13
MS35338-139	96906	2	17	20V2-108	98437	3	4
MS35338-139	96906	1	7	20V2-108	98437	5	26
MS35338-41	96906	2	2	20V2-109	98437	1	29
MS35338-42	96906	5	13	20V2-110	98437	5	48
MS35338-43	96906	2	29	20V2-2P1	98437	1	9
MS35338-43	96906	1	13	20V2-2P5	98437	5	24
MS35338-43	96906	2	24	20V2-2P6	98437	5	23
MS35338-43	96906	4	8	20V2-2P7	98437	4	12
MS35338-44	96906	5	21	20V2-2P8	98437	1	11
MS35649-64	96906	4	10	20V2-2P9	98437	5	51
MS35650-304	96906	2	16	20V3-2	98437	4	35
MS35650-362	96906	2	6	20V3-7	98437	5	52
MS51922-21	96906	5	12	20V4-1-1	98437	2	15
MS51922-21	96906	4	13	20V5-6-2P1	98437	1	37
MS51922-9	96906	1	2	20V5-6-2P2	98437	1	38
MS51922-9	96906	3	5	20V5-6-2P3	98437	1	39
MS51922-9	96906	4	32	20V5-6-2P4	98437	1	36
MS51922-9	96906	5	2	20V5-6-2P5	98437	1	34
MS51958-64	96906	2	1	20V5-6-2P6	98437	1	35

SECTION IV

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
20V5-6-2P7	98437	1	40	51-0901-0111-301	72619	2	14
20V5-6-2P8	98437	1	41	51-0901-0112-201	72619	2	12
20V524	98437	4	25	51901-135	72619	2	10
20V5311	98437	5	19	6F2-3M1	98437	5	6
20V583	98437	4	19	6S6	65083	2	11
200R4S3T	70255	5	33	85-11-1100-16	94222	1	24
260A5F268W	74924	5	25	85-11-980-16	94222	1	22
26106	07700			85-34-101-17	94222	1	18
42008	04009	2	27	85-35-295-15	94222	1	17
42410	04009	2	25	85-46-101-39	94222	1	20
42555-300	04009	2	9				

TM 5-4120-343-23P
TO 35E9-179-14

By Order of the Secretaries of the Army and the Air Force:

Official:

BERNARD W. ROGERS
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Chief of Staff

J. C. PENNINGTON
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To be distributed in accordance with DA Form 12-25C Organizational Maintenance Requirements for Environmental Equipment, Air Conditioners, 24,500 BTU.

★U.S. GOVERNMENT PRINTING OFFICE: 1989 - 242-451/05741

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PFC JOHN DOE
COA, 3d ENGINEER BN
FT. LEONARD WOOD NC 23108

DATE

PUBLICATION NUMBER	DATE	TITLE
TM 5-4120-343-24P	13 Jun 79	AIR CONDITIONER, 11,000 BTU NSN 4120-01-001-6888

BE EXACT...PIN-POINT WHERE IT IS

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

TEAR ALONG DOTTED LINE

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
6	2-1 a		
81		4-3	
125	line 20 14		

In line 6 of paragraph 2-1a the manual states the engine has 6 cylinders. The engine on my set only has 4 cylinders. Change the manual to show 4 cylinders.

Callout 16 on figure 4-3 is pointing at a bolt. In the key to fig. 4-3 item 16 is called a shim. Please correct one or the other.

Ordered a gasket, item 19 on figure B-16 by NSN 2910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN.

SPAN PL

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
JOHN DOE, PFC (268) 317-7111

SIGN HERE:

John Doe

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TITLE

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NSN 4120-01-030-6883

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IN THIS SPACE TELL WHAT IS WRONG
AND WHAT SHOULD BE DONE ABOUT IT:PAGE
NO.PARA-
GRAPHFIGURE
NO.TABLE
NO.

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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 dekagram = 10 grams = .35 ounce
 1 hectogram = 10 dekagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.82 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq centimeter = 100 sq millimeters = 155 sq inch
 1 sq decimeter = 100 sq centimeters = 15.5 sq inches
 1 sq meter (centare) = 100 sq decimeters = 10.76 sq feet
 1 sq dekameter (are) = 100 sq meters = 1,076.4 sq feet
 1 sq hectometer (hectare) = 100 sq dekameters = 2.47 acres
 1 sq kilometer = 100 sq hectometers = .386 sq mile

Cubic Measure

1 cu centimeter = 1000 cu millimeters = .06 cu. inch
 1 cu decimeter = 1000 cu centimeters = 61.02 cu. inches
 1 cu meter = 1000 cu decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	1.893	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.365	metric tons	short tons	1.102
pound-inches	newton-meters	.11375			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature
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